



Part No.: H-020-000850-00

MGIEasy

Tissue Storage Reagent

Instructions for Use

Version: 1.0

Leading Life Science Innovation

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Research Use
Only

Qingdao MGI Tech Co., Ltd.

About the instructions for use

This instructions for use is applicable to MGIEasy Tissue Storage Reagent. The version of the instructions for use is 1.0 and the product version is 1.0.

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Revision history

| Version | Date | Description |
|---------|------------------|-----------------|
| 1.0 | October 31, 2023 | Initial release |

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Chapter 1 Introduction

1.1 Product name

MGIEasy Tissue Storage Reagent

1.2 Specifications

| Product name | Model | Cat. No. | Specification |
|--------------------------------|---------|---------------|---------------|
| MGIEasy Tissue Storage Reagent | TSR-100 | 940-001755-00 | 100 mL/bottle |

1.3 Intended use

Fresh tissue samples can be effectively preserved and transported in this product in the short term to maintain the cell activity and stabilize the gene expression levels. The preserved samples can be used for downstream applications such as single-cell sequencing.

1.4 Working principle

The storage reagent in this product can maintain the osmotic pressure and metabolism of isolated tissue cells, and prevent oxidative damage to tissues at 2 °C to 8 °C in the short term. By using this product, the homeostasis environment of animals is simulated to maintain the original state of tissues, and effectively stabilize the gene expression levels.

1.5 Main components

Table 1 MGIEasy Tissue Storage Reagent Cat. No.: 940-001755-00

| Component | Ingredient | Specification |
|------------------------|-----------------|-----------------|
| Tissue storage reagent | Storage reagent | 100 mL/bottle×1 |

1.6 Storage conditions and validity period

- When the product is capped, it can be stored at 2 °C to 8 °C for up to 12 months. Do not freeze it.

- This product can be transported at 2 °C to 8 °C for up to 15 days.
- For the validity period, refer to the label.

Chapter 2 Sample requirements

2.1 Applicable sample

This product is applicable to the fresh tissue samples or animal model tissue samples.

2.2 Sample storage

The freshly collected tissue samples with the storage reagent should be stored at 2 °C to 8 °C to maintain the activity within 72 hours.

2.3 Sample safety

All samples are regarded potentially infectious.

Chapter 3 Operation

3.1 Storing tissue samples with the storage reagent

Perform the following steps:

1. In the biological safety cabinet, prepare an appropriate disposable sterile culture dish, place it on ice, and add a small amount of cell culture medium such as DMEM precooled to 2 °C to 8 °C into the dish.
2. Collect fresh tissue sample or animal model tissue sample, and immediately place it in the cell culture medium such as DMEM.
3. Use a pair of tweezers to gently stir up the sample and wash it with the culture medium.
4. Prepare a new disposable sterile culture dish, add culture medium into it, and place the dish on ice. Use tweezers to transfer the sample to the culture dish.

5. Use a surgical blade to cut the sample into pieces in size of 0.3 cm by 0.3 cm. Use the culture medium in the culture dish to remove impurities such as blood and muscle tissue from the sample and transfer the sample to the storage reagent.



Tips The volume ratio of the storage reagent and preserved tissue should be more than 10:1. It is recommended that 10 mL of the storage reagent preserves about 100 mg of tissue, or 4 to 5 pieces of tissue whose size is 0.3 cm by 0.3 cm. Insufficient storage reagent may cause failure to preserve a certain part of tissue.

6. Store or transport the freshly collected tissue samples with the storage reagent at 2 °C to 8 °C for up to 72 hours.

3.2 Treating stored tissue samples

Perform the following steps:

1. Take the stored tissue used for experiment from the biological safety cabinet, place it in a disposable sterile culture dish with a small amount of cell culture medium such as DMEM or PBS solution on ice, and use a pair of tweezers to wash it.
2. Perform the downstream experiment according to the experiment requirements. For example, according to an appropriate dissociation solution, dissociate the tissue to prepare cell suspension.

Chapter 4 Warnings and precautions

- This product is for research use only. Please read the instructions for use of the product carefully before use.
- Before experiment, be sure to be familiar with and master the operation methods and precautions of various devices to be used.
- Avoid direct contact with skin and eyes for all samples and reagents. Do not swallow. If accidental ingestion occurs, please get medical attention immediately. If skin exposure occurs, rinse with large amounts of water and get medical attention if irritation persists.
- This product is disposable.
- Contact the manufacturer to obtain the safety data sheet (SDS).

Appendix 1 Manufacturer information

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| Manufacturer | Qingdao MGI Tech Co., Ltd. |
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